Aaronson, Stuart A. 3
Abdelkader, Nana 379
Acosta, Daniel 515
Adamson, I. Y. R. 784
Aebischer, Patrick 162
Aggeler, Judith 915
Agneray, J. 187
Ahn, Ji-Won 841
Aleo, Michael D. 898
Ali, Mubarak 1024
Alvager, T. 933
Alves, Leo M. 1125
Amory, Brigitte 1004
Ancora, G. 531
Anderson, Steven N. 61
Anderson, Wayne B. 388
Arancia, Giuseppe 399
Archer, Charles W. 259
Armati, Patricia J. 1116
Ashkenazi, I. E. 978
Aspar, Danielle G. 147, 815
Atkins, Leonard 7
Auersperg, Nelly 493
Auger, F. A. 983

Babich, Harvey 1030
Baden, Howard P. 7
Bagnell, C. Robert 1167
Baijal, Madhulika 871
Bakowska, J. 784
Balcavage, W. X. 933
Bangalore, Shrikar 369
Bank, Harvey L. 1035
Barnes, David 9
Barnes, Rebecca 237
Basbaum, Carol B. 411
Basile, Dominick V. 1125
Baumann, Nicole 217
Bayne, Ellen 201
Beamer, Wesley G. 431
Bedigian, Hendrick G. 431
Bell, Cindy L. 1123
Bentel, J. M. 103
Bequet-Passelecq, B. G. A. G. G. 353
Berault, Annette 431
Bern, Howard A. 722
Berrou, Eliane 157
Bezwoda, W. R. 447
Biggers, William J. 997
Billen, Brigitte 1004
Birchem, Regina 129
Black, Jennifer D. 803
Blair, James B. 237
Blixt, Ylva 691
Blocker, Ned 285
Blumenfeld, Olga O. 502
Bodmer, W. 743
Boffi, Monica 659
Boffoli, Domenico 659
Bohin, Anne 431
Boillat, Colette 709
Bonner, James C. 1135
Bonner, Jim 1116
Borenfreund, Ellen 1030
Borojevic, Radovan 361
Boulekbache, H. 1079
Bourekis, G. 596
Boutry, Jeanne-Marie 217
Bouvard, V. 983
Bowley, Stephen R. 85
Boyd, Jeff A. 701
Branchaud, Charlotte L. 865
Braunstein, Glenn D. 857
Brenner, D. A. 1011
Breton, Monique 157
Brewitt, Barbara 305
Breznovits, A. 301
Brody, Arnold R. 1135
Brown, John M. 971
Bruce, Sarah A. 1157
Bullrich, F. 1073
Bury, Mary A. 1157
Buse, Maria G. 285
Butler, Gary H. 91

Callahan, A. M. 829
Campbell, Wendy J. 1181
Carman, John G. 746
Carney, Edward W. 629
Carswell, Susan 604
Castell, Jose V. 67, 1057
Chader, Gerald J. 325
Chapman, M. Lynne 991
Cheetham, K. 931
Chen, Janet 425
Cheney, Carolyn M. 455
Cherry, Lorraine M. 80, 936
Chevillard, M. 1063
Chilton, David G. 561
Cicero, Rosa 659
Cinatl, Jaroslav 841
Cinatl, Jindrich, Jr. 841
Clark, John I. 305
Cobb, Elizabeth 229
Cody, Christine 91
Cohen, Jack 991
Conti, M. 29
Cooper, Edwin L. 962
Cordts, J. M. 829
Cottrill, Christopher P. 259
Coudray-Lucas, C. 187
Couturier, M. 29
Cramer, Clay T. 815
Cunha, Gerald R. 722
Cuozzo, L. 531
Cynober, L. 187
Cyr, Louis 1035

Dale, B. A. 596
Danel-Moore, Laurence 561
Dansey, R. 447
Darcy, Kathleen 803
Darfler, Frederick J. 769, 779
Das Gupta, Tapas K. 971
Davila, Julio C. 515
Davis, Patrick J. 515
Davisson, Muriel T. 431
De Clercq, Lieve 1004
De Hertogh, R. 944
Deschner, Steven H. 169
Deudon, Elisabeth 157
DiBartola, Stephen P. 455
Dickman, Kathleen G. 571
Dimitrijevich, S. Dan 991
diSant'Agnese, P. Anthony 636
Doerr, Hans W. 841
Donahoe, P. K. 1121
Donato, M. Teresa 67, 1057
Dotan, A. 978
Douglas, Gordon C. 754
Drolet, Daniel W. 647
Durban, Elisa M. 33
Dutra, Helio S. 361

Ebbesen, Peter 937
Edgell, Cora-Jean S. 1167
Ellar, David J. 1105
Emerman, Joanne T. 1186
Endo, Akira 220
Enomoto, Shoji 849
Epstein, J. 1121
Evain-Brion, Daniele 388
Evans, Virginia 1115
Everett, Mark A. 554
Everitt, Einar 691
Everitt, Jeffrey I. 1135

Fabra, Ricardo 67
Fallon, Ann Marie 731
Fendly, Brian M. 647
Feneant-Thibault, M. 29
Fey, G. H. 1011
Fey, Stephen J. 937
Fkindjian, O. G. 187
Foote, Robert H. 629
Forczek, Suzanne 803
Forest, N. 1079
Forman, Lisa 455
Frangos, John A. 57
Frank, Cyril B. 579
Freiberg, Ellen F. 585
Fryer, J. L. 275
Fujimaki, Masao 181
Fujimoto, Masafumi 612
Fukushima, Hisashi 612
Fuller, B. J. 931
Fuller, Bryan B. 554
Fuller, George C. 61
Fuqua, Suzanne A. W. 621
Furlong, Cynthia 80

Galletti, Pierre M. 162
Gallone, Anna 659
Gangadharam, P. R. J. 657
Gansler, Ted 285
Garvin, A. Julian 285
Gaskins, H. Rex 1049
Geib, R. W. 933
Germain, L. 983
Ghosh, S. 933
Gibson, Ursula E. M. 647
Gimenez, Patricia 67
Ginsberg, Leonard C. 815
Goeringer, Gerald C. 507
Goetz, Dudley 991
Goff, C. 933
Goldaber, Michael L. 7
Goldstein, Samuel 857
Golombick, Terry 447
Gómez-Lechón, M. José 67, 1057
Goodyer, Cynthia G. 865
Goto, Tamotsu 265
Goujet-Zalc, Cecile 217
Gracy, Robert W. 991
Gramling, T. Stokes 285
Green, Sadie 285
Gruda, Julian 511
Gruenert, Dieter C. 411
Guaragna, Regina M. 361
Guo, Yan-Shi 871

Gupte, Anagha 57
Guyda, Harvey J. 865

Hager, Henrik 937
Hahm, Hillary A. 791, 803
Haizlip, Jill E. 1167
Harada, Naoki 682
Hardin, James W. 857
Hardman, Patricia 1120
Hardy, E. Lorraine 525
Harpin, Marie-Luce 217
Harrison, David E. 431
Harrison, Paul 1167
Hartley, Rebecca S. 955
Hata, Jun-Ichi 265
Hausman, Gary J. 1049
Hauw, Jean-Jacques 217
Hayakawa, Taro 348
Hayashi, Yasuhiro 843
Hayden, Betty J. 325
Hayflick, Leonard 1, 3
Helgen, J. C. 731
Henkle, Carol 7
Hevelone, Julia C. 991
Heyner, S. 1043
Hill, Miroslav 44
Hillova, Jana 44
Hinnrasky, J. 1063
Hinton, David E. 237
Hirai, Satomi 843
Hirata, Yukimasa 348
Hobbs, Shaun L. A. 835
Hoet, Jules-Joseph 1004
Holland, Mark A. 315
Hollsberg, Per 937
Hoover, Dennis M. 393
Hosoi, Shinji 1101
Hsu, T. C. 80, 936
Hsu, Wei-Chao 285
Hubchak, S. 889
Hunziker, Thomas 709
Hurbain-Kosmath, Ilse 431
Huschtscha, L. 743

Ichikawa, Atsushi 843
Ide, Misao 612
Ikeda, Hodaka 193
Indovina, Pietro L. 399
Ip, Margot M. 791, 803
Ip, Tze Kin 162
Iwasaki, Naoko 348
Iwata, Mitsuru 554
Iwata, Shoko 554

Jackson, Jennifer A. 835
Jamashi, Roudabeh J. 222
Jie, Zheng 937
Jin, Gui-Fang 871
Johnson, Betty H. 561
Johnson, Teresa L. 1095
Johnston, Paul D. 647
Jones, Richard A. 857
Joshi, Rohit 579
Joy, Richard W., IV 643
Jutisz, Marian 431

Kaffka, K. L. 1173
Kahn, Raymond H. 1115
Kahng, Myong Won 441
Kamata, Nobuyuki 849
Kamo, Kathryn 425
Kan, Mikio 209, 213, 1151
Kang, Yuan-Hsu 169
Karaki, Yoshiaki 181
Kassell, Neal F. 291
Kato, Hiroshi 181
Katz, Marion 379
Kaufman, David G. 701
Kawa, Simon 561
Kazakoff, Peter 537
Kelly, C. E. 1121
Kelly, David 1181
Kershaw, W. C. 75
Khar, Ashok 1024
Kilian, P. L. 1173
Kim, Jong-Won 1049
Kinard, Fabienne 1004
King, Barry F. 754
King, G. M. 784
King, M. 933
Kiser, Cheryl S. 878
Klaassen, C. D. 75
Klein, Mary R. 280
Klement, Brenda J. 1120
Kletzien, Rolf F. 815
Koch, K. S. 1011
Kociba, Gary J. 455
Koeter, H. B. W. M. 353
Kong, Zwe-Ling 949
Kosiur, James R. 464
Kotani, Hitoshi 91
Koval, Thomas M. 665
Kovar, Jan 1026
Kramer, Susan Mukavitz 647
Kubilus, Joseph 7

Laherty, R. F. 933
Lamiot, E. 1063
Lamore, Bette J. 737
Lannan, C. N. 275
Lapp, C. A. 482
Larrauri, Amparo 67
Larsen, Peter Mose 937
Laska, Dennis A. 393
Lawson, Roger 425
Ledeen, Robert W. 502
LeDuy, A. 983
Lee, David 259
Lee, Judithann 105
Lee, Mei Li 464
Lee, M. M. 1121
Lee, Paul 140
Lee, Y. S. 482
Lefebvre, Yves 865
Leffert, H. L. 1011
Lehman, John M. 846
Leiter, Edward H. 431
Lemonnier, A. 29
Lemonnier, F. 29
Liapi, Charis 388
Limat, Alain 709
Lin, Qi 80
Liu, J. 75
Liu, W. K. 24
Lopez, Pilar 67
Lord, Roger 1028
Lu, X. P. 1011
Lu, Yuanan 275
Luzato, P. 978

Machi, Takao 291
Madden, Victoria J. 1167
Madsen, Walter E. 971
Maida, Immacolata 659
Malark, Marlene 209
Malorni, Walter 399
Mangino, M. M. 889
Mangum, James B. 1135
Maniotis, Andrew 201
Manousis, Thanasis 1105
Mansson, Per-Erik 209
Mansson-Rahemtulla, Britta 878
Mante, S. 829
Manzionna, Mariano M. 659
Marcus, Philip I. 997
Margis, Rogerio 361
Mariage-Samson, Regine 44
Marino, Thomas A. 229
Martin, James H. 923
Martin-Alguacil, Nieves 1030
Martinez-Conde, A. 1011
Masover, Gerald K. 585
Masuda, Akira 713
Mathes, Lawrence E. 455
Mathis, Georg A. 113
Matsuoka, Hideo 741
Matsuyama, Mutsushi 713
McCarthy, William J. 824
McGarrity, Gerard J. 91
McGuire, William L. 621
McKedy, Deborah 824
McKeehan, Wallace L. 9, 209, 213
McKersie, Bryan D. 85
McLane, John A. 379
McMillan, E. 784
Melchior, George W. 147
Mercer, W. Edward 229
Merchant, Donald 543
Merkle, S. A. 1087
Meschini, Stefania 399
Meyer, Dale R. 923
Michiels, B. 944
Micou-Eastwood, Julie 201
Miller, Leo 1128
Miller, Michael R. 237
Miller, Richard K. 636
Mithen, Francis A. 129
Miwa, Misao 949
Mochizuki, Naomi 348
Mohler, Marjorie A. 647
Montoya, Angel 67
Moore, Lynne R. 1135
Morgens, P. H. 829
Mori, Masaki 741
Morikawa, Minoru 682
Moyer, M. 1073
Moyer, Mary Pat 1095
Mukai, Kiyoshi 265
Munn, Robert J. 140
Murakami, Hiroki 9, 949
Murnane, John P. 915

Nadolney, Carlton H. 839
Nag, Asish C. 464
Nagaoka, Shoji 51
Narayanan, Ramaswamy 1195
Narita, Takeo 330
Nebelsick, John 537

Nefussi, J. R. 1079
Newman, Michael J. 1195
Ng, T. B. 24
Nicosia, Roberto F. 119
Niederkorn, Jerry Y. 923
Nielsen, Thor B. 169
Nishijima, Sachiyo 348
Nishikawa, Akio 1128
Noel, Nadine 431
Noser, Friedrich 709
Novas, M. L. 335

Obinata, Takashi 201
Ochieng, Josiah 318
Oda, Dolphine 589, 596
Ohgawara, Hisako 348
Ohtsuka, Kenzo 713
Oka, Takami 803
Okeda, Toshimitsu 1157
Otagiri, Haruyo 181
Ottinetti, Antonio 119

Pack, Donna 237
Packenham, Joan P. 1167
Palasiuk, Maria 229
Pampfer, S. 944
Parsons, Thomas 229
Peleg, L. 978
Perkins, Eugene H. 222
Personett, D. 933
Petersen, Ole W. 671
Phillippe, Mark 369
Phillips, Scott B. 7
Picard, Jaques 157
Pierrot, D. 1063
Pintucci, Giuseppe 659
Pipas, James M. 604
Piquette, Gary N. 471
Polacco, Joseph C. 315
Polkowska, Jolanta 431
Puchelle, E. 1063

Quinton, Paul M. 1123

Rabenau, Holger 841
Raftos, David A. 962
Rahemtulla, Firoz 878
Ramsdell, John S. 250
Rao, L. V. 1043
Raynaud, Francoise 388
Reddy, Chandrasekara G. 515
Reddy, M. K. 889
Reddy, M. V. 657
Reid, Lola 9
Reiker, Margaret M. 129
Reis, Robert J. Shmookler 857
Remacle, Claude 1004
Renfro, J. Larry 571
Reusch, Michael 759
Rey, M. 531
Reynolds, Robert 105
Rezanka, Louis J. 455
Rikimaru, Koichi 849
Rinehart, Clifford A., Jr. 701
Rizzino, Angie 537, 1181
Robinson, Douglas H. 169
Robinson, Katherine A. 285
Rodeheaver, Denise P. 898
Rodriguez, R. 531
Rohovec, J. S. 275
Rojko, Jennifer L. 455
Rompre, P. 983
Ropke, Carsten 671
Rosendorff, Jennifer 447
Roskelley, Calvin D. 493
Ross, Nathan S. 280
Ross, Stephen M. 579
Roth, Alan M. 140
Roy, Linda 285
Ruben, Zadok 61
Russo, Jose 318
Rust, Philip F. 1035
Rutten, A. A. J. J. L. 353

Sager, Ruth 3
Saito, Mitsukazu 181
Saito, Tomohiro 181
Salvucci, M. 187
Samuel, J.-L. 905
Santini, Maria T. 399
Sarubbi, Donald J. 1195
Sato, Gordon H. 9
Sato, Jiro 220
Sato, Seiji 1101
Satoh, Mitsuo 1101
Satyaswaroop, P. G. 1173
Saul, Allan 1028
Saunders, Trevania 369
Sautier, J. M. 1079
Sawada, Hidekazu 209, 213
Sawasaki, Yoshio 265
Scarpelli, D. G. 889
Schaeffer, Warren I. 3, 97, 737
Schantz, Stimson P. 80
Scheld, W. Michael 291
Schmehl, Marcia K. 1035
Schneider, Sandra L. 621
Schnellmann, Rick G. 898
Schwartz, Elaine 502
Scialli, Anthony R. 507
Scorza, R. 829
Segal, Stanton 105
Sekellick, Margaret J. 997
Selleck, Sarah E. 759
Senaratna, Tissa 85
Sens, Donald A. 285
Shaughnessy, Elizabeth A. 971
Shea, Wendy K. 803
Sheffield, E. 301
Sheffield, Joel B. 325, 1073
Shi, Er-Gang 1151
Shillitoe, Edward J. 80
Shimizu-Nishikawa, Keiko 1128
Shinbo, Takashi 181
Shinohara, Kazuki 949
Siegal, Gene P. 701
Simkins, Stephen G. 737
Singh, Pomila 871
Sirica, Alphonse E. 113
Skrivanek, Joseph A. 502
Smith, Garry J. 103
Soma, Gen-Ichiro 682
Sommer, H. E. 1087
Sotak, R. J. 1087
Spector, Dennis 201
Speeg, Kermit V. 621
Spence, Susan L. 604
Spindle, Akiko 151
Spooner, Brian S. 1120
Stachura, M. E. 482
Stanbridge, Eric 9
States, Beatrice 105
Stauber, Ziva 325
Sterner, Richard 1125
Stillman, Dan L. 962
Strohman, Richard C. 201
Sugimachi, Keizo 741
Sun, Elena L. 147
Suppes, Deborah L. 665
Suzuki, Jiro 51

Tabibzadeh, S. 1173
Tachikawa, Noriko 849
Tack, Lois C. 604
Taira, Toshio 348
Tait, Larry 318
Takahashi, Kimiko 265
Tallarida, Diane 91
Tandon, Atul K. 621
Tang, R. 335
Tanzawa, Hiroshi 51
Tazawa, Kenji 181
Teh, Swee J. 237
Telang, Nitin T. 1195
Therien, Helene-Marie 511
Thibault, J. 983
Thirkill, Charles E. 140
Thompson, Carol A. 393
Thompson, E. Brad 561
Thompson, James C. 871
Thorpe, Trevor A. 525, 643
Timms, Barry G. 471
Tobback, Christine 629
Toda, Hitomi 849
Tokiwa, Takayoshi 220
Torrello, William A. 315, 419
Townsend, Courtney M., Jr. 871
Trifaro, J.-M. 335
Trifillis, Anna L. 441
Trullenque, Ramon 67
Ts'o, Paul O. P. 1157
Tumilowicz, Joseph J. 1144
Turk, Marina 841
Turner, Timothy 722
Tyler, J. M. 482
Tyler, Nancy K. 140

Ubelaker, John E. 923
Ueo, Hiroaki 741, 1157
Ulrich, Roger G. 147, 815

Valeur, Anders 691
Valle, C. A. Lopez 983
van Deurs, Bo 671
Vandenburgh, H. H. 905
Vanderheyden, I. 944
Vaubourdolle, M. 187
Vedder, Helmut 1068
Vincent, Monroe M. 1115

Walker, Michael J. 971
Walter, Ruth Anne 229
Walton, Leslie A. 701
Watson, Eileen 589
Weinberg, Robert A. 3
Weiss, Tania L. 759
Wellman, Maxey L. 455
White, Sandy L. 393
White, Tacey E. K. 636
Widdicombe, Jonathan H. 411

Wiecko, A. T.	1087	Wood, Henry N.	1125	Younes-Chennoufi, Amena Ben	217
Wiesmann, Ulrich	709	Wright, Jocelyn H.	604	Young, Peter	722
Wikarczuk, M. L.	1043			Yui, Ryougo	348
Wilbourn, Barry	1167	Yablonka-Reuveni, Zipora	955		
Wilkinson, Darcy A.	1186	Yavin, Ephraim	217	Zaghmout, Ousama M. Faiz	315, 419
Williams, Patricia D.	393	Yokogawa, Yasushi	1157	Zahm, J. M.	1063
Wintroub, Bruce U.	759	Yoshida, Takeshi	682	Zuzulo, Betty	839
Wise, Gary E.	991	Yoshimura, Masami	803	Zuzulo, Ralph	839

Abstracts, annual meeting 16A
Acinar cell culture 878
Acyl-CoA dehydrogenase 280
Adipocyte differentiation 1049
Adrenal cells 24, 493
Adrenergic receptors 369
Adriamycin 621
Adult myosin gene expression 201
Aging 157, 997, 1157
Agnoprotein 604
Albumin synthesis 147
Alfalfa 85
Alkaline phosphatase 612
Alveolar type II cells 1135
Aminoglycoside 571
Amiprilose hydrochloride 991
Amphibian Kupffer cells 659
Angiogenesis 119
Anterior pituitary cells 431
Anti-alpha-smooth muscle actin 369
Anti-oncogenes 1095
Antiproliferative effect 991
Apolipoprotein A-I synthesis 147
Artificial seeds 85
Aryl hydrocarbon hydroxylase 1057
Ascorbate 259, 502
Astroglia 612
Atherosclerosis 209, 213
AtT 20 cell line 1068
Autocrine growth factor 330, 482

Basement membrane 119, 878, 898, 955
Bile ductular epithelial cell 113
Bone cell differentiation 1079
Breast tumor cells 621, 1186
Bromodeoxyuridine resistance 824

c-*fos* 1049
Cadmium 75
Calcium 318, 379, 1128
Carcinoma 701
Cardiac muscle cells 229, 905
CD4+ T lymphocytes 561
Cell adhesion 250, 1073
  attachment 665
  biology 9
  culture 285, 571, 579, 585, 659, 857, 1135
  density 537
  division 229
  fusion 1095
  growth 157, 665
  lines 431, 713, 923, 971, 1105
  mobility 250
  proliferation 379, 962
  shape 325
  suspension 978
Cell-to-cell interactions 169, 237
Cerebral artery 291
Chemiluminescence 682
Chemotherapeutics 1030
Chick embryo 399, 955, 997
Chinese hamster fibroblast 44
  ovary cells 1101
Chondrogenesis 259
Chorionic gonadotropin 857, 865
Chromaffin Paraneuron 335
Chromosome breakage 80
Ciliated cells 140, 1063
Cloning 9, 44
CMV 1144
Co-cultures 335, 629, 665, 944, 1057, 1135
Collagen 579
  contraction 61
  gel 722, 889
  gel matrix 348
  gels 983
Collagenase 898
Colon cancer 871, 1095
Connective tissue 201
Cornea 923
Cotyledonary nodes 835
Creatine phosphokinase 393
Cryopreservation 147, 709
Culture 237, 291, 464, 759, 1063
  medium 151
  mycoplasmas 91
Cultured renal epithelia 105
Cyclic adenosine Monophosphate (cAMP) 193, 369, 554, 647, 889
Cynomolgus monkey hepatocytes 147
Cysteine endopeptidase 1101
Cystic fibrosis 411
Cystine-dibasic AA co-transporter 105
Cytochrome P-450 67, 1057
Cytokeratin 471
Cytokinin effects 643
Cytoskeleton 291
Cytotoxicity 75, 511
Cytotrophoblast 754

Defined cell culture 9, 769, 849
Dermal contraction 983
  equivalent 983
  toxicity 353
Desiccation tolerance 85
Development 305, 543, 746, 784, 997
Dexamethasone 713
Diethylnitrosamine 222
Differential gene expression 746
Differentiation 9, 543, 754, 803
DNA damage sensitivity 915
  synthesis 113, 229
Dopa-oxidase activity 659
Dopamine beta-hydroxylase 335
Drug-resistance 621

Ectopic gene expression 857
Embryo 429, 507, 829, 1043, 1157, 1181
Endocrine pancreas 1004
Endometrium 636, 701
Endothelial cells 57, 119, 169, 265, 291, 612, 759, 1167
Epidermal growth factor 33, 113, 285, 305, 537, 1157
Epithelial cells 701, 713, 722, 737, 923, 1095, 1128, 1135, 1186
Estrogens 865, 971
Excised cotyledons 643
Extracellular matrix 9, 24, 119, 162, 193, 502, 636, 701, 791, 803, 1151
Extracutaneous melanogenesis 659

Fatty acid oxidation 280
Feeder cells 709
Feline lymphoma 455
Fetal alcohol syndrome 129
Fiber maturation 201
Fibroblast 51, 187, 379, 579
  growth factor 209, 213, 537
Fibroblast-free cultures 589
Fibronectin 57, 1128
Fish cell culture 237, 275
Flower bulb crops 425

Gametophyte 301
Ganglioside 502
Gastrin 871
Genetic improvement 829
  repression 857
GH_3 cells 482
Gluconeogenesis 67
Glucose transport 162
Glycolipid 502
Gonadotropes 431
Granulosa cell 471
Grass 419
  carp cell lines 275
Growth factors 44, 209, 250
  hormone 482
  kinetics 44, 621
Heart 507
Heat Shock 731
HeLa cells 691
Hemocytes 962
Heparin 1151
Hepatocytes 75, 237, 815, 1057
Hepatotoxicity 515
Human 80, 937
  cell culture 441
  collecting duct 441
  dermal fibroblasts 709
  epithelial differentiation 411
  fibroblast cultures 29
  foreskin fibroblasts 61
  hepatocytes 67
  squamous cell 849
  tissue equivalent 991
Hybridomas 769
Hydroxyproline 348
Hyperthermia 181
Hypertrophy 229
Hypothermia 181

Image analysis 325, 1063
Immortalization 265
Immunocytochemistry 291, 335
In vitro 140, 353, 621, 636, 1079
  muscle irritation 393
  skin model 991
  screening 1030
In vivo morphology 636
Indomethacin 361
Inositol phosphates 369
Insect cell culture 824
Insulin 361, 1004, 1043, 1128
Insulinlike growth factors 285, 1043, 1059
Interferon system 997
Interleukins 213, 769
Ito cell 361

Keratin 937
Keratinocyte culture 379, 709, 923, 1195
  growth medium 589
Kidney 285, 571

Laminin 201
Large granular lymphoma 455
Lens culture 305
Lepidoptera 665
Lepidopteran cell culture 731, 824
Leydig cells 24

Limiting dilution assay 1035
Lipid peroxidation 691, 898
Lipocyte 361
Liposome 511
Liriodendron tulipifera 1087
Liver 237, 361, 815
  biopsy 67
Liver-epithelial cells 330
Lolium perenne 419
Lung fibroblasts 1135
Lymphocyte 80, 511

Macaca fascicularis 815
Macrophagelike cell 949
Mammary epithelial cells 791, 803, 1195
Mechanical cell stimulator 905
Meloidogyne incognita 1105
Mesenchyme 971
Mesoderm 388
Metalloproteinase 915
Metallothionein 75
Metamorphosis 1128
Metastatic lines 222
Microtubule 318
Microvessels 612
Mineralization 1079
Mitochondrial function 898
Monkey 815
Monocot cell suspensions 425
Monokines 213
Morphologic change 181
Mouse embryos 151, 722
Muller cells 1073
Mycoplasma 91, 140, 585
Myelin sheath 129
Myoblast fusion 399
Myocytes 335
Myofibrils 464
Myofibroblast 361
Myogenesis 259, 399, 955
Myosin 335
  isoforms 464, 955

Nematodes 1105
Nephrotoxicity 571
Neural cell adhesion molecule (NCAM) 250
Nicotiana tabacum 525
Nitrate reductase 525
Nitrite reductase 525

Oncogene 9
One-cell embryos 151
Oral epithelial cultures 589, 596
Organ culture 353
Organogenesis 525
Ornithine alpha ketoglutarate 187
Ovarian cancer cell line 447
  surface epithelium 471
Oviduct 629
Oxygen consumption 898

Pancreatic duct cells 889
Papaverine 515
Papillary collecting duct 441
Parenchymal/stromal 493
Parenteral formulations 393
Parotid gland 878
Pea 835
Percoll 493
Perennial ryegrass 419
Pericytes 169
Perifusion 482
Periodicity 169
Peripheral nerve disease 129
Perisinusoidal cell 361
Peritoneal mesothelium 471
Pharynx 962
Pigment cells 659
Pinus radiata 643
Pituitary cells 250, 431, 1068
Placental cultures 754, 865
Plasma membranes 691
Plasticity 169
Platelet-derived growth factor 305, 388, 537
Polyamines 187
Polyoma virus middle T antigen 604
POMC-gene expression 1068
Preimplantation embryo 629
Primary culture 722, 791, 803, 1186
  hepatocyte cultures 147
  liver cell cultures 515
  tissue culture 962
Progesterone 865
Prolactin 482
Proliferating cell nuclear antigen 229
Prostaglandin 554, 1049
Prostate 543, 722
Protease activity 1101
Protein synthesis 67
Protein-free culture 769, 849
Proteoglycans 157
Pseudopleuronectes americanus 571
Psoriasis 991
Pteridium 301
Pulmonary surfactant 784
Pulsatile delivery 305

Receptors 213, 431, 537, 1151
Red blood cells 978
Regeneration 835, 1144
Relaxin 647
Retinoblastoma 325
Retrovirology 9
Rhesus monkey 754
Retina development 1073

Sarcoma 971
Schwann cell 129
Secretin 889
Serum-free 61, 193, 305, 379, 447, 464, 561, 671, 722, 737, 759, 779, 865, 949, 1068, 1101, 1186
Shape measurement 318, 325
Shear stress 57
Shoot formation 525
Skeletal muscle cell line 393
Skin culture 353
  equivalent 983
Smooth muscle 61
  cells 157, 502, 1144
Somatic cell genetics 9
  embryo 1087
  embryogenesis 85, 746
Spodoptera frugiperda 731
Spontaneous transformation 265, 330
Squamous cell carcinoma 222, 849
Steroid dehydrogenasis 471
  responses 561
Steroidogenesis 24, 193, 493
Submandibular gland 33
Substratum 113
SV40 large T antigen 604
Synovium 140

T lymphocytes 769
Teratocarcinoma 388

Thecal cells 193
Theophylline 554
Thymic epithelial cells 671
Thymidine kinase deficiency 187, 824
Thymoma 713
TNF-alpha phagocytosis 682
Transfection 731
Transforming growth
  factor-beta 537, 682, 1181, 1195
Transport 759
Trifluoperazine 915
Trophoblast 937
Trout 237
Tubulin 318
Tumor suppression 1095
Tumorigenicity 330
Tunicate 962
Type II cells 784
Tyrosinase 554

Ultrastructure 301, 701
Ureogenesis 67
Uterine smooth muscle myocytes 369

Virology 9
Vitamin E 29
von Willebrand factor 1167

Weibel-Palade body 265, 1167
Wounds 209, 643

Xenopus laevis 1128

Yellow-poplar 1087

[N]e_4,D-phe,]-alphaMSH 554

1,25-dihydroxyvitamin D_3 379

1alpha,25$(OH)_2D_3$ 682

2-cell embryos 944

2-deoxy-D-glucose uptake 29

7-ethoxycoumarin *o*-deethylase 1057

gamma-glutamyltranspeptidase 612, 898